		T-2
	Application No.	Applicant(s)
Notice of Allowability	10/080,045	DE ET AL.
Notice of Allowability	Examiner	Art Unit
	Robert W. Wilson	2661
The MAILING DATE of this communication appearable All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communicatio GHTS. This application is subject t	oplication. If not included n will be mailed in due course. THIS
1. This communication is responsive to <u>2/21/05</u> .		
2. The allowed claim(s) is/are <u>1-8</u> .		
3. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the:		
 Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No 		
Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subminification (PTO-152) which give		
 CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date 	on's Patent Drawing Review (PTO	·
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in t		
DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
	•	
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. Notice of Informal F	Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	(PTO-413),
 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date ②109/02; 1/30/03:5/24/04. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	Paper No./Mail Da 8), 7. Examiner's Amend	ment/Comment
		ent of Reasons for Allowance
•	9. Other	13-5 A Am
		BOB PHUNKULH PRIMARY EXAMINER

Art Unit: 2661

Allowable Subject Matter

Claims 1-8 are allowed.

The following is an Examiner's statement of reasons for allowance:

Claims 1-8 are considered allowable since when reading the claims in light of the specification, none of the references of record alone or in combination disclose or suggest the combination of limitations specified in the independent claims including "determining a first spread data estimate using an element from the cross correlation matrix and recursively determining further estimates using additional elements of the cross correlation matrix" as specified in claims 1 & 5 respectively. Additionally, claims 2-4 and 6-8 are allowed because they depend upon claims 1 & 5 respectively.

The closest prior art is Vollmer (U.S. Patent No.: 6,064,689) and Dell-Imagine (U.S. Patent No.: 5,517,688). Vollmer teaches: a code division receiver in a mobile which receives a combined data signals over shared spectrum, samples the combined signal, estimates the channel response for the combined signal, and determines the cross correlation matrix using the estimated channel response per col. 2 line 22-col. 3 line 38 and per col. 4 line 47-col. 5 line 24 respectively. Dell-Imagine teaches: sampling the combined signal at multiple chip rates per col. 1 lines 22-25.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 10/080,045

Art Unit: 2661

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert W. Wilson whose telephone number is 571/272-3075.

The examiner can normally be reached on M-F (8:00-4:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Chau T. Nguyen can be reached on 571/272-3126. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Robert W Wilson

Robert W. Wilson

Page 3

Examiner

Art Unit 2661

RWW 1/6/05

PRIMARY EXAMINER